GPBR Exercise 0

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The entry r_{ij} of ground truth values is 0 when i is equal to j. On the other hand, the result of the naive graph isomorphism test, entry r_{ij} is 1 when i is equal to j, which is not match with the ground truth. In addition, graph_00 is isomorphic to graph_03 and graph_04, graph_02 is isomorphic to graph_03 and graph_04, and graph_03 is isomorphic to graph_04, but the values in ground truth are 0.

As a result, the naive graph isomorphism test was failed. In some cases, both of the graphs can have an equivalent number of nodes and edges but different structures. For example, graph_00 and graph_04 have the same number of nodes and edges, but they are not isomorphic because their structures are different.